

FULL ESTIMATED COST

ENTRY	SESSION
0.21	0.21

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STRUCTURE FILE UPDATES: 8 APR 2002 HIGHEST RN 404822-50-0
DICTIONARY FILE UPDATES: 8 APR 2002 HIGHEST RN 404822-50-0

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Calculated physical property data is now available. See HELP PROPERTIES
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Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
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As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

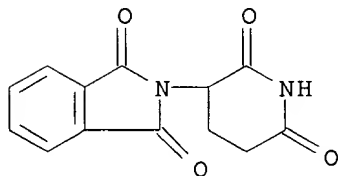
Customers running searches and/or SDIs in the H/Z/CA/CAPLUS files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
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CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

=> s 50-35-1/rn
L1 1 50-35-1/RN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 50-35-1 REGISTRY
CN 1H-Isoindole-1,3(2H)-dione, 2-(2,6-dioxo-3-piperidinyl)- (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Phthalimide, N-(2,6-dioxo-3-piperidyl)- (6CI, 7CI, 8CI)
OTHER NAMES:
CN (.+-.)-Thalidomide
CN .alpha.-(N-Phthalimido)glutarimide
CN .alpha.-N-Phthalylglutaramide
CN .alpha.-Phthalimidoglutaramide
CN 1,3-Dioxo-2-(2,6-dioxopiperidin-3-yl)isoindoline
CN 3-Phthalimidoglutaramide
CN Celgene
CN Contergan
CN Distaval
CN K 17
CN Kevadon
CN N-(2,6-Dioxo-3-piperidyl)phthalimide

CN N-Phthaloylglutamimide
 CN Quetimid
 CN Sedoval
 CN Softenil
 CN Softenon
 CN Talimol
 CN Thalidomide
 CN Thalomid
 FS 3D CONCORD
 DR 14088-68-7, 731-40-8
 MF C13 H10 N2 O4
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB, DDFU,
 DIOGENES, DRUGNL, DRUGU, DRUGUPDATES, EMBASE, HODOC*, HSDB*, IPA,
 MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, SPECINFO,
 SYNTHLINE, TOXCENTER, USAN, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

790 REFERENCES IN FILE CA (1967 TO DATE)
 44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 797 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.96	2.17

FILE 'CAPLUS' ENTERED AT 06:30:03 ON 10 APR 2002
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FILE COVERS 1907 - 10 Apr 2002 VOL 136 ISS 15

AN 2000:48781 CAPLUS
 DN 132:175214
 TI New anti-angiogenesis agents: review of the clinical experience with
 carboxyamido-triazole (CAI), thalidomide, TNP-470, and interleukin-12
 AU Masiero, Laura; Figg, William D.; Kohn, Elise C.
 CS Laboratory of Pathology, National Institutes of Health, Bethesda, MD,
 20892, USA
 SO Angiogenesis (1997), 1(1), 23-35
 CODEN: AGIOFT; ISSN: 0969-6970
 PB Kluwer Academic Publishers
 DT Journal; General Review
 LA English
 CC 1-0 (Pharmacology)
 AB A review with 83 refs. is given focussing on 4 agents under investigation
 in the US: carboxyamido-triazole (CAI), thalidomide, TNP-470, and
 interleukin (IL)-12. Angiogenesis was postulated to be a crit. prognostic
 factor and therapeutic focus for malignancy more than 2 decades ago.
 Recent studies indicate quant. assessments of microvessel count to be an
 independent prognostic variable for disease-free and overall survival in a
 wide variety of tumors, and that angiogenesis may be a feasible target
 against which to intervene pharmacol. Several new and old agents were
 found to have anti-angiogenic activity and have reached clin. trial. This
 review will focus on 4 agents under investigation in the US:
 carboxyamido-triazole (CAI), thalidomide, TNP-470, and interleukin
 (IL)-12. CAI, originally identified for its anti-invasive capacity, was
 shown to inhibit tumor and endothelial cell proliferation by inhibition of
 Ca uptake. It is administered orally, is generally well tolerated, and
 was shown to induce disease stabilization and occasional redns. in tumor
 mass. Thalidomide was shown to inhibit growth factor-induced neo-vessel
 formation, a process that can also explain its earlier devastating clin.
 toxicity. It is administered orally, and is currently in phase II clin.
 trials for prostate cancer, glioblastoma multiforme, and **breast**
cancer. TNP-470 is a fumagillin analog that was shown in in vivo
 models to be a potent inhibitor of angiogenesis at concns. that are
 cytostatic to endothelial cells and tumor cells. Lastly, IL-12 may exert
 its anti-angiogenic effects through activation of interferon-.gamma. to
 up-regulate interferon-inducible protein-10, an anti-angiogenic cytokine.
 Phase I clin. trials of IL-12 have shown disease stabilization in several
 tumor types in response to s.c. administration or using genetically
 engineered IL-12-expressing patient fibroblasts. These promising new
 agents join the matrix metalloproteinase inhibitors as important new drugs
 in the anti-cancer armamentarium.
 ST review angiogenesis inhibitor antitumor
 IT Angiogenesis
 Angiogenesis inhibitors
 (new anti-angiogenesis agents)
 IT Interleukin 12

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(new anti-angiogenesis agents)

IT 50-35-1, Thalidomide 99519-84-3, 1H-1,2,3-Triazole-4-carboxamide, 5-amino-1-[[3,5-dichloro-4-(4-chlorobenzoyl)phenyl]methyl]-129298-91-5, TNP-470

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(new anti-angiogenesis agents)

RE.CNT 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
 TI Effects of **thalidomide** on **liver cancer**
 angiogenesis in mice
 AN 2001:669172 CAPLUS
 DN 136:379553
 TI Effects of **thalidomide** on **liver cancer**
 angiogenesis in mice
 AU Wang, Xi'an; Xiao, Zhengda; Jin, Guanqiu; Wang, Luowei; Shen, Binhong;
 Ding, Aini; Lu, Jiao; Shen, Min
 CS Department of Gastroenterology, No.411 Hospital of PLA, Shanghai, 200081,
 Peop. Rep. China
 SO Dier Junyi Daxue Xuebao (2001), 22(6), 561-563
 CODEN: DJXUE5; ISSN: 0258-879X
 PB Dier Junyi Daxue Xuebao Bianjibu
 DT Journal
 LA Chinese
 AB The vascular suppressive effect of **thalidomide** on mice
liver cancer angiogenesis and its mechanism were
 studied. The exptl. animal model with **liver cancer**
 was made by s.c. inoculation of mice **liver cancer** HAC
 cells strain in Kunming mice. Mice with **liver cancer**
 were divided into 4 groups: neg. control group (distd. water perfusion
 stomach), pos. control group (cyclophosphamide 100 mg kg⁻¹, i.p., 1, 3,
 and 5 d after inoculation), **thalidomide** A group, and
thalidomide B group. Mice in **thalidomide** A and
thalidomide B groups were treated with **thalidomide** (50
 mg kg d⁻¹) for 1 and 5 days, resp. after inoculation. The microvessel d.
 (MVD), PCNA, and VEGF were detected by Envision System immunohistochem.
 MVD were 2.9.+-.1.3 and 10.5.+-.2.7, and pos. rate of VEGF was
 (0.8.+-.0.2)% and (2.2.+-.1.1)%, resp. in **thalidomide** A and B
 groups. Both the MVD and the VEGF were significantly lower than those in
 neg. control group (P <0.05). The cancer suppressive rate of
thalidomide A and B groups was 50.1% and 41.5%, resp. The results
 showed that **thalidomide** can inhibit the growth of mice HAC
liver cancer through its antiangiogenic function.
 TI Effects of **thalidomide** on **liver cancer**
 angiogenesis in mice
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liver cancer angiogenesis and its mechanism were
 studied. The exptl. animal model with **liver cancer**
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 neg. control group (P <0.05). The cancer suppressive rate of
thalidomide A and B groups was 50.1% and 41.5%, resp. The results
 showed that **thalidomide** can inhibit the growth of mice HAC
liver cancer through its antiangiogenic function.
 ST **thalidomide** **liver cancer** angiogenesis
 IT Angiogenesis inhibitors
 (effects of **thalidomide** on **liver cancer**
 angiogenesis in mice)
 IT Liver, neoplasm
 (hepatoma, inhibitors; effects of **thalidomide** on
liver cancer angiogenesis in mice)

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
 TI Nonsurgical treatment of **hepatocellular carcinoma**
 AN 2001:818154 CAPLUS
 DN 136:112075
 TI Nonsurgical treatment of **hepatocellular carcinoma**
 AU Aguayo, Alvaro; Patt, Yehuda Z.
 CS Division of Medicine, Departments of Medical Oncology and Gastrointestinal
 Medical Oncology, M.D. Anderson Cancer Center, The University of Texas,
 Houston, TX, 77030, USA
 SO Seminars in Oncology (2001), 28(5), 503-513
 CODEN: SOLGAV; ISSN: 0093-7754
 PB W. B. Saunders Co.
 DT Journal; General Review
 LA English
 AB A review. While surgical resection and tumor ablation are the preferred
 therapies for **hepatocellular carcinoma** (HCC), these
 are available or appropriate in only a minority of patients. This
 reflects the usual comorbidity of severe underlying liver disease that
 either precludes surgery or makes the surgical approach extremely
 dangerous. Nonetheless, regional control of HCC is highly relevant and
 many regional strategies have been explored, including hepatic
 intra-arterial chemotherapy, transarterial chemoembolization, lipiodol
 chemoembolization, radiation therapy, cryosurgery, percutaneous ethanol
 injection, and radiofrequency ablation. In addn., a variety of systemic
 chemotherapeutic agents have been tested in HCC, including various
 combinations of 5-fluorouracil, doxorubicin, epirubicin, etoposide,
 cisplatin, and mitoxantrone, as well as interferon, tamoxifen,
 capecitabine, **thalidomide**, and octreotide, Published data
 regarding these regional and systemic therapies will be discussed in this
 review.
 RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
 TI Nonsurgical treatment of **hepatocellular carcinoma**
 AB A review. While surgical resection and tumor ablation are the preferred
 therapies for **hepatocellular carcinoma** (HCC), these
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 combinations of 5-fluorouracil, doxorubicin, epirubicin, etoposide,
 cisplatin, and mitoxantrone, as well as interferon, tamoxifen,
 capecitabine, **thalidomide**, and octreotide, Published data
 regarding these regional and systemic therapies will be discussed in this
 review.
 ST review antitumor **hepatocellular carcinoma**
 IT Temperature effects, biological
 (cold, cryosurgery; nonsurgical treatment of **hepatocellular**
carcinoma in humans)
 IT Embolism
 (embolization, chemo-; nonsurgical treatment of **hepatocellular**
carcinoma in humans)
 IT Temperature effects, biological
 (heat, thermotherapy; nonsurgical treatment of **hepatocellular**
carcinoma in humans)
 IT Liver, neoplasm
 (hepatoma, inhibitors; nonsurgical treatment of **hepatocellular**
carcinoma in humans)
 IT Antitumor agents

(hepatoma; nonsurgical treatment of **hepatocellular carcinoma** in humans)

IT Chemotherapy
Human
Radiotherapy
(nonsurgical treatment of **hepatocellular carcinoma** in humans)

IT 64-17-5, Ethanol, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nonsurgical treatment of **hepatocellular carcinoma** in humans)

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

TI Pharmaceutical compositions containing **thalidomide** for the treatment of **hepatocellular carcinoma**

AN 2001:643415 CAPLUS

DN 135:185507

TI Pharmaceutical compositions containing **thalidomide** for the treatment of **hepatocellular carcinoma**

IN Huang, Chun-Ying; Whang-Peng, Jia-Kang; Chen, Li-Tzong; Liu, Tsang-Wu; Chang, Jang-Yang; Hsu, Ming-Chu

PA TTY Biopharm Company Limited, Taiwan

SO U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001018445	A1	20010830	US 2001-768442	20010124
	EP 1226824	A1	20020731	EP 2001-300601	20010124
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2001240542	A2	20010904	JP 2001-23900	20010131
PRAI	TW 2000-89101826	A	20000202		

AB A pharmaceutical compn. for the treatment of **hepatocellular carcinoma** comprises **thalidomide** and a pharmaceutically acceptable carrier. Capsules each contg. 50 mg drug prepd. from **thalidomide** 50, lactose 50, corn starch 18, and Avicel 65 mg. The components were blended, passed through a No. 45 mesh-sieve, and filled into hard gelatin capsules.

TI Pharmaceutical compositions containing **thalidomide** for the treatment of **hepatocellular carcinoma**

AB A pharmaceutical compn. for the treatment of **hepatocellular carcinoma** comprises **thalidomide** and a pharmaceutically acceptable carrier. Capsules each contg. 50 mg drug prepd. from **thalidomide** 50, lactose 50, corn starch 18, and Avicel 65 mg. The components were blended, passed through a No. 45 mesh-sieve, and filled into hard gelatin capsules.

ST **thalidomide hepatocellular carcinoma**
inhibitor pharmaceutical

IT Embolism
(embolization, chemo-; pharmaceutical compns. contg. **thalidomide** for treatment of **hepatocellular carcinoma**)

IT Liver, neoplasm
(hepatoma, metastasis, inhibitors; pharmaceutical compns. contg. **thalidomide** for treatment of **hepatocellular carcinoma**)

IT Antitumor agents
(hepatoma, metastasis; pharmaceutical compns. contg. **thalidomide** for treatment of **hepatocellular carcinoma**)

IT Liver, neoplasm

(hepatoma, metastatic; pharmaceutical compns. contg.
thalidomide for treatment of **hepatocellular carcinoma**)

IT Liver, neoplasm

(hepatoma; pharmaceutical compns. contg. **thalidomide** for
treatment of **hepatocellular carcinoma**)

IT Angiogenesis inhibitors

Gene therapy

Immunotherapy

(pharmaceutical compns. contg. **thalidomide** for treatment of
hepatocellular carcinoma)

IT Hormones, animal, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compns. contg. **thalidomide** for treatment of
hepatocellular carcinoma)

IT 50-35-1, **Thalidomide**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)

(pharmaceutical compns. contg. **thalidomide** for treatment of
hepatocellular carcinoma)

=>

IT Antitumor agents
(hepatoma; effects of **thalidomide** on liver
cancer angiogenesis in mice)

IT 127464-60-2, Vascular endothelial growth factor
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(effects of **thalidomide** on liver cancer
angiogenesis in mice)

IT 50-35-1, **Thalidomide**
RL: DMA (Drug mechanism of action); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(effects of **thalidomide** on liver cancer
angiogenesis in mice)

=>

AN 2000:48781 CAPLUS
 DN 132:175214
 TI New anti-angiogenesis agents: review of the clinical experience with
 carboxyamido-triazole (CAI), thalidomide, TNP-470, and interleukin-12
 AU Masiero, Laura; Figg, William D.; Kohn, Elise C.
 CS Laboratory of Pathology, National Institutes of Health, Bethesda, MD,
 20892, USA
 SO Angiogenesis (1997), 1(1), 23-35
 CODEN: AGIOFT; ISSN: 0969-6970
 PB Kluwer Academic Publishers
 DT Journal; General Review
 LA English
 CC 1-0 (Pharmacology)
 AB A review with 83 refs. is given focussing on 4 agents under investigation
 in the US: carboxyamido-triazole (CAI), thalidomide, TNP-470, and
 interleukin (IL)-12. Angiogenesis was postulated to be a crit. prognostic
 factor and therapeutic focus for malignancy more than 2 decades ago.
 Recent studies indicate quant. assessments of microvessel count to be an
 independent prognostic variable for disease-free and overall survival in a
 wide variety of tumors, and that angiogenesis may be a feasible target
 against which to intervene pharmacol. Several new and old agents were
 found to have anti-angiogenic activity and have reached clin. trial. This
 review will focus on 4 agents under investigation in the US:
 carboxyamido-triazole (CAI), thalidomide, TNP-470, and interleukin
 (IL)-12. CAI, originally identified for its anti-invasive capacity, was
 shown to inhibit tumor and endothelial cell proliferation by inhibition of
 Ca uptake. It is administered orally, is generally well tolerated, and
 was shown to induce disease stabilization and occasional redns. in tumor
 mass. Thalidomide was shown to inhibit growth factor-induced neo-vessel
 formation, a process that can also explain its earlier devastating clin.
 toxicity. It is administered orally, and is currently in phase II clin.
 trials for prostate cancer, glioblastoma multiforme, and **breast**
cancer. TNP-470 is a fumagillin analog that was shown in in vivo
 models to be a potent inhibitor of angiogenesis at concns. that are
 cytostatic to endothelial cells and tumor cells. Lastly, IL-12 may exert
 its anti-angiogenic effects through activation of interferon-.gamma. to
 up-regulate interferon-inducible protein-10, an anti-angiogenic cytokine.
 Phase I clin. trials of IL-12 have shown disease stabilization in several
 tumor types in response to s.c. administration or using genetically
 engineered IL-12-expressing patient fibroblasts. These promising new
 agents join the matrix metalloproteinase inhibitors as important new drugs
 in the anti-cancer armamentarium.
 ST review angiogenesis inhibitor antitumor
 IT Angiogenesis
 Angiogenesis inhibitors
 (new anti-angiogenesis agents)
 IT Interleukin 12

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(new anti-angiogenesis agents)

IT 50-35-1, Thalidomide 99519-84-3, 1H-1,2,3-Triazole-4-carboxamide, 5-amino-1-[[3,5-dichloro-4-(4-chlorobenzoyl)phenyl]methyl]-129298-91-5, TNP-470

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(new anti-angiogenesis agents)

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